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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,547	01/18/2002	William Ho Chang	FLEX 2233	7168
7812	7590	12/14/2005	EXAMINER	
SMITH-HILL AND BEDELL, P.C. 16100 NW CORNELL ROAD, SUITE 220 BEAVERTON, OR 97006			MILIA, MARK R	
			ART UNIT	PAPER NUMBER
			2622	

DATE MAILED: 12/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/054,547

Applicant(s)

CHANG ET AL.

Examiner

Mark R. Milia

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 January 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## DETAILED ACTION

### *Drawings*

1. Figures 1A, 1B, 4A, and 4B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: In Fig. 1A, reference character "140", Fig. 2A, reference character "202", Fig. 2B, reference character "204", and Fig. 10, reference character "1010". Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top

Art Unit: 2622

margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Specification***

3. The disclosure is objected to because of the following informalities: On page 44, paragraph 60, line 2, reference is made to element "720", but no reference character "720" is found in the Figures. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-14, 17-23, and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6798530 to Buckley et al.

Regarding claim 1, Buckley discloses a data output controller method that controls interaction between an output device and one or more information apparatus in connection with the output device rendering content accessed with the one or more information apparatus, comprising: managing a communication channel with the one or more information apparatus (see Fig. 2 and column 5 lines 32-49), providing over the communication channel an output device profile associated with the output device, said output device profile enabling at least part of the content to be rasterized for rendering at the output device (see Figs. 1-3, column 4 lines 13-38, and column 6 lines 32-50, reference shows a memory portion "134" for storing printer definitions, which are analogous to a device profile), and receiving over the communication channel an intermediate output data that includes one or more raster output images for rendering at the output device, said one or more raster output images corresponding to at least part of the content and being conformed at least in part with the output device profile (see Fig. 2, column 7 lines 14-20, and column 9 lines 26-36, reference shows that a user sends a document to the printer driver that is then converted into printer data and printer control data that will be used to render the image, the types of objects to be printed can be graphics, bitmaps, or text, and a mixed raster content technique can also be used, all of this is analogous to the claim limitation and is therefore anticipated by the reference).

Regarding claim 9, Buckley discloses in a computer readable medium, data output controller software that controls interaction between an output device and an information apparatus in connection with the output device rendering content accessed with the information apparatus, comprising: software for storing at least part of an output

device profile (see Fig. 2 and column 6 lines 48-50), software for providing over a communication channel an output device profile associated with the output device, said output device profile enabling at least part of the content to be rasterized for rendering at the output device (see Figs. 1-3, column 4 lines 13-38, and column 6 lines 32-50, reference shows a memory portion "134" for storing printer definitions, which are analogous to a device profile), software for receiving over the communication channel an intermediate output data that includes one or more raster output images corresponding to at least part of the content for rendering at the output device and conformed at least in part with the output device profile (see Fig. 2, column 7 lines 14-20, and column 9 lines 26-36, reference shows that a user sends a document to the printer driver that is then converted into printer data and printer control data that will be used to render the image, the types of objects to be printed can be graphics, bitmaps, or text, and a mixed raster content technique can also be used, all of this is analogous to the claim limitation and is therefore anticipated by the reference).

Regarding claims 17 and 29, Buckley discloses a data output controller method and in a computer readable medium, data output controller software that controls interaction between an output device and one or more information apparatus in connection with the output device rendering content accessed with the one or more information apparatus, comprising: software for managing a communication channel with the one or more information apparatus (see Fig. 2 and column 5 lines 32-49), software for providing over the communication channel at least an indication related to one or more data formats acceptable for rendering the content at the output device (see

Art Unit: 2622

Figs. 3-5, column 4 lines 13-38, column 6 lines 32-50, column 7 lines 35-67, and column 8 lines 61-67), and software for receiving over the communication channel an intermediate output data that includes data in accordance with the one or more data formats, the intermediate output data corresponding least part of the content (see Fig. 2, column 7 lines 14-20, and column 9 lines 26-36).

Regarding claims 2, 10, and 22, Buckley discloses the system discussed in claims 1, 9, and 17, and further discloses performing one or more image processing operations on the one or more output images included in the intermediate output data, the one or more image processing operations includes one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation operation, a color space conversion, a compression operation, and halftoning operation (see Figs. 1 and 3-5, column 7 lines 35-67, and column 8 lines 61-67).

Regarding claims 3, 11, and 18, Buckley discloses the system discussed in claims 1, 9, and 17, and further discloses conforming the intermediate output data into an output data that is acceptable for rendering by an output engine included in the output device (see column 7 lines 14-20).

Regarding claims 4, 12, and 23, Buckley discloses the system discussed in claims 1, 9, and 17, and further discloses the output device is a printing device and the method further comprising conforming the intermediate output data into a print data that is acceptable to a printer controller associated with the output device (see Fig. 2 and column 7 lines 14-20).

Regarding claims 5 and 19, Buckley discloses the system discussed in claims 1 and 18, and further discloses delivering the intermediate output data for rendering by the output device (see Fig. 2 and column 7 lines 14-20).

Regarding claim 6, Buckley discloses the system discussed in claim 1, and further discloses wherein the communication channel includes a short-range wireless communication channel (see column 5 lines 43-49).

Regarding claim 7, Buckley discloses the system discussed in claim 1, and further discloses providing at least part of the output device profile to the information apparatus in response to a service request received from the information apparatus (see Figs. 1 and 3-5, column 4 lines 13-38, column 6 line 51-column 7 line 3, column 7 lines 35-67, and column 8 lines 61-67).

Regarding claim 8, Buckley discloses the system discussed in claim 1, and further discloses providing at least part of the output device profile to the information apparatus in more than one communication session with the information apparatus (see Fig. 1 and column 3 line 21-column 4 line 8).

Regarding claim 13, Buckley discloses the system discussed in claim 9, and further discloses the output controller software is included in the output device (see Fig. 2 and column 6 lines 1-9, reference states that the system may be integrated).

Regarding claim 14, Buckley discloses the system discussed in claim 9, and further discloses the output controller software is included in a server, an external station, a board, a card, and a data access point separate from the output device (see Fig. 2, column 5 lines 57-58, and column 6 lines 1-9).



Regarding claim 20, Buckley discloses the system discussed in claim 17, and further discloses software for providing over the communication channel information related to one or more of an output device identification, an intermediate output data indicator, a quality of service indicator, a price indicator, a status indicator, an output device attribute, a rasterization parameter, a format indicator, a language indicator (see Figs. 3-6 and column 4 lines 13-38).

Regarding claim 21, Buckley discloses the system discussed in claim 17, and further discloses software for receiving intermediate output data that includes at least one output image corresponding to at least part of the content for rendering at the output device (see column 6 line 51-column 7 line 20).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 15 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buckley as applied to claims 9 and 17 above, and further in view of U.S. Patent No. 6434535 to Kupka et al.

Buckley does not disclose expressly software for calculating and collecting payment information as compensation for rendering of the content by the output device.

Art Unit: 2622

Kupka discloses software for calculating and collecting payment information as compensation for rendering of the content by the output device (see Fig. 1, column 3 line 53-column 4 line 5, column 7 line 48-column 8 line 7, and column 14 lines 3-16).

Buckley & Kupka are combinable because they are from the same problem solving area, distribution of electronic data.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the payment calculating and collect method, which is well known and used in the art, as described by Kupka with the system of Buckley.

The suggestion/motivation for doing so would have been to accurately calculate and collect payment for services rendered (data rendered).

Therefore, it would have been obvious to combine Kupka with Buckley to obtain the invention as specified in claims 15 and 25.

8. Claims 16 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buckley as applied to claims 9 and 17 above, and further in view of U.S. Patent No. 6600569 to Osada et al.

Buckley does not disclose expressly software for implementing job management functionalities with one or more of data output job queuing and spooling.

Osada discloses software for implementing job management functionalities with one or more of data output job queuing and spooling (see Figs. 4 and 20, column 4 lines 12-65, and column 17 lines 52-59).

Art Unit: 2622

Buckley & Osada are combinable because they are from the same field of endeavor, output of print data.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the job queue as described by Osada, and which is well known and used in the art, with the system of Buckley.

The suggestion/motivation for doing so would have been to allow a user to select a plurality of print jobs to be rendered without the need to wait for the print job to actually be executed, by sequentially storing the data for subsequent output, and when a printer becomes available to execute the job.

Therefore, it would have been obvious to combine Osada with Buckley to obtain the invention as specified in claims 16 and 26.

9. Claim 24, 27, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buckley as applied to claim 17 above, and further in view of U.S. Patent No. 6421748 to Lin et al.

Buckley does not disclose expressly (*claim 24*) posting or broadcasting the output availability for service, (*claim 27*) software for implementing authentication procedures that limit access to the rendering provided by the output device, and (*claim 28*) storing in a memory component an access control list specifying an information apparatus for which the output device will render content.

Lin discloses (*claim 24*) posting or broadcasting the output availability for service (see column 2 lines 58-64), (*claim 27*) software for implementing authentication

Art Unit: 2622

procedures that limit access to the rendering provided by the output device (see Fig. 2 and column 4 lines 26-35), and (*claim 28*) storing in a memory component an access control list specifying an information apparatus for which the output device will render content (see column 2 line 58-column 3 line 8 and column 4 lines 26-48, reference states that a user password is verified and from that a list of available output devices is displayed, thereby an output device will render content only when an information apparatus has a valid password, which is analogous to the claim limitation).

Buckley & Lin are combinable because they are from the same field of endeavor, output of print data.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the posting of available output devices and authentication procedure as described by Lin, and which is well known and used in the art, with the system of Buckley.

The suggestion/motivation for doing so would have been allow only certain users or workstations access to particular output devices.

Therefore, it would have been obvious to combine Lin with Buckley to obtain the invention as specified in claims 24, 27, and 28.

**Conclusion**

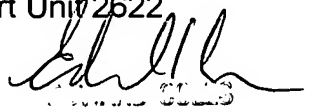
10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. To further show the state of the art refer to the attached Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached at (571) 272-7402. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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